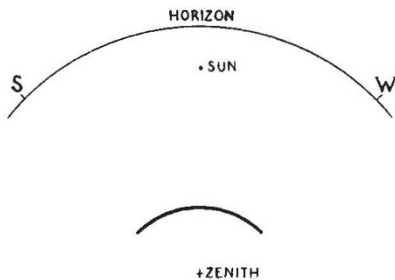


some time with day and night training of semi-skilled mechanics for armament factories, thus anticipating the Ministry of Labour scheme, and has since turned to the production of munition components. Many members of the staffs of the Departments of the Faculties of Pure Science, Medicine, Engineering and Metallurgy, have carried on research work in connexion with the war effort in addition to their normal duties. The Regional Committee for Education in H.M. Forces, centred in and worked from the University, arranged 702 lectures and talks.

A Brilliant Atmospheric Arc

OPTICAL phenomena appear to have been very prominent in the upper atmosphere over the south-east of England on November 9, 1941. An account of a brilliantly coloured arc has been received from Mr. A. F. Dufton, of the King's Lodge, Hunton Bridge, Herts. Although the colouring is described as fully as brilliant as that of a rainbow, the colours being in the usual sequence with the red outermost,



the accompanying sketch, which was sent by Mr. Dufton, shows that the arc was not part of an ordinary rainbow, being parallel with the horizon. The radius of curvature was estimated to subtend about 40°, the sun being estimated to be about 50° from the nearest point of the arc (the middle of the arc). The phenomenon was seen at 4 p.m. B.S.T., and a trace of cirrus cloud was present. On the same day, Mr. L. C. H. Cave, of the Old Rectory, Blechingley, Surrey, as reported in *The Times* of November 24, that he saw a mock sun at Hitchin of exceptional brilliance, also at 4 p.m. B.S.T. This is described as being so bright that it was almost difficult to look directly at it.

West African Forestry during 1940

It may be asked whether the constant reiteration of the forest policy envisaged for the several Colonies under the Colonial Office produces the results obviously aimed at by the writers of annual forestry reports. The administrative authorities pass these reports and doubtless think that these statements read well and do not commit them to anything; and results in the past have shown this to be true. A forest policy put up by the forestry adviser may be accepted in whole or in part, but ruthlessly countermanded in a few months time for reasons having no connexion with a true appreciation of the value of the forests in the interests of the community. The heads of all three forest services in West Africa, Nigeria, the Gold Coast and Sierra Leone comment in their annual reports on the absence of military duties of a high percentage of their gazetted officers. The Conservator in Sierra Leone has four assistants; yet between them they only put in 18 months work in the department during the year (1940). At the end

of the same year twelve officers, about half the Gold Coast forest staff, were on military service; while in Nigeria more than one third of the gazetted staff were on military service or other war-time duties. Yet in each Colony war-time demands are accelerating the exploitation of the forests. It is not therefore surprising that much of the work of a trained forest officer in the introduction of a proper management, such as reservation, including stock mapping preceding exploitation, in silvicultural work with the object of the perpetuation of the forest estate, and other professional development work, was almost in abeyance during the year in all three Colonies.

It is difficult to regard this position with satisfaction in view of the recent debates in both Houses of Parliament on Colonial matters. For in each the inference was that the Colonial Office is not awaiting the end of the War, but is even now busy considering how the administrative machinery may be best speeded up and shaped so as to enable better conditions of livelihood to be enjoyed by the populations in the future. Where the improvement of agricultural practices is in question, or even education, the results—mistakes or otherwise—may become apparent within a few years. This is not the case with forestry. The postponement and procrastination displayed in the acceptance and adoption of a correct forest policy is almost a commonplace when applied to many of the Colonies; as is a recognition that forests cannot remain in a balancing or stable condition. They are either constantly improving or degrading. The most serious result of the absence of so many officers from the forest departments is the further delay in speeding up the placing of forest areas into the category of reserves when they come under the direct management and care of the forest officer.

Public Health in the United States

ACCORDING to provisional data for 1939 compiled by the Public Health Service of the United States the general mortality in 45 States, the Districts of Columbia, Hawaii and Alaska, was 10.7 per 1,000 inhabitants, as compared with 10.6 in 1938. Infantile mortality was 48 per 1,000 living births, the lowest hitherto recorded. The fall in maternal mortality continued, being 10 per cent lower than in 1938 (4 per cent live births). During the year 1939 no case of cholera or yellow fever was reported, but one case of plague was notified in the State of Utah. There were 403,037 cases of measles, or less than half the number in 1938, and 9,877 cases of small-pox as compared with 14,938 in the previous year. At the beginning of the summer of 1939 there was an outbreak of poliomyelitis in the States of the Atlantic coast with a total of 7,339 cases compared with 1,705 in 1938. The incidence of diphtheria, cerebrospinal fever, scarlet fever, typhoid and paratyphoid fevers was much less than the average for the quinquennium 1934–38. There was an outbreak of influenza in February 1939 which subsided towards the middle of July, but there was another outbreak in October which lasted until June 1940; in 1939 there were 275,503 cases notified, or more than double those in 1938 and 40 per cent above the average for the quinquennium 1934–38. 2,996 cases of typhoid fever were notified in 1939 as compared with 2,294 in 1938. The mortality from typhoid, paratyphoid, measles, scarlet fever, diphtheria, encephalitis, meningitis, tuberculosis, malaria, pellagra, affections of the